

THE **Kitchen**

475-9865

240 Mercer St. New York 10012

OFFICIAL PROGRAM
THE 1973
International
Computer Arts
Festival...
April 1 through 14



THE FIRST SHIFT-KEY TYPEWRITER—1878

Graphics exhibited at the Computer Arts Festival

George Chaikin

Courant Institute of Mathematical Sciences

New York University, New York

Graphics co-ordinator of the Festival

One of the chief implementers of the computer language ARTSPEAK, Mr. Chaikin is also an architect. He is involved with many different applications of computer graphics, and does much consulting and research work.

Vladimir Drozen PhD

Hradec Králové, Czechoslovakia

9 stills from the film "CREATION"

"The pictures are photographic records of the reflections of the sunlight from undulating water surfaces, thus representing solutions- at particular moments of time- of the two dimensional wave equation under specific- rather complicated- boundary and initial conditions. They have been obtained without any computing technique at all"- from Dr. Drozen's letter

Cyprienne Schroepel

M.I.T., Cambridge, Massachusetts

14 x 16 inch needlepoint of one frame of the movie "SOLAR CORONA" by Michael Beeler (film entry)

Ramesh Misra

ARKISHOP, New Delhi, India, and New York.

Computer animation by Walter Wright

Photography by Ramesh Misra.

Generated at Dolphin, Computer Image Corp.

Lou Katz Columbia University, New York

"SPACE, TIME & SUBSTANCE" 40 slides

"These pictures are a part of a study of three dimensional surfaces and shapes, and two dimensional patterns that change with time. The "double" images are stereoscopic pairs, and can be viewed in 3-D by those who can "cross" their eyes. These slides were made using an ADAGE AGT/50 graphics computer, using programs by Lou Katz, Mr. Reidar Bornholdt, and Mr. Christos Tountas."

Aaron Marcus

Princeton University, Princeton, New Jersey

"Computer art promises to challenge more profoundly than ever before what is real and what is not." -Aaron Marcus; film: "THE BEGINNING"

Paul Hrozenchik, Bruce MacFarland
students of George Chaikin, New York

William Fetter - see film entry

Gary Nelson - see music entry

Computer generated musical notation

Afternoon events of the Computer Arts Festival

Sunday April 1 5pm Lecture:

COMPUTERS AND THE ART OF MEDICINE

Juan de Dios Pozo-Olano, PhD, Fellow in Neurology
Mount Sinai School of Medicine, New York

Beginning with a brief survey, Dr. Pozo-Olano will discuss in detail the work that he has done using digital computers to record graphic representations of brain waves. Illustrated by slides.

Friday April 6 5pm Workshop:

VIDEO SYNTHESIS AND COMPUTERS

Walter Wright -see video entry

Saturday April 7 2pm SYMPOSIUM

COMPUTER COMPOSITION: Comparison of Aesthetics and Techniques in All Media. All artists in the Festival are invited as panelists. Chairman of the meeting, George Chaikin. Proceedings will be video taped, $\frac{1}{2}$ inch crews are welcome. Microphones open to the floor.

Sunday April 8 5pm Lecture:

COMPUTER MUSIC Charles Dodge

Music co-ordinator of the Festival

Sunday April 8 1-4pm; Monday & Tuesday 9,10 5-7pm

COMPUTER INTERACTION Computers on hand will be open to public use, to generate patterns, carry on conversations, etc. Computers courtesy of Leasco Response Co, Electronics Associates Inc, and Pratt Institute. Special workshop: Fred Stern, Sunday 1pm

ALL EVENING PROGRAMS START AT 8PM, AND INCLUDE MUSIC, VIDEO & FILM:

Films shown during the Computer Arts Festival....continued- see next page

April 10,11 Doris Chase

"CIRCLES"

Doris Chase now lives in New York, and is working on a film named SQUARES. The film "CIRCLES" was made using a 40/20 Stomberg Carlson plotter, computer analyst Bob Tingley. This film was produced with computer graphics animation techniques developed under the direction of William Fetter at the Boeing Aircraft Company, Seattle, Washington.

April 10,11 Aaron Marcus

"THE BEGINNING" - see graphics entry

Films shown during the Computer Arts Festival, 1973, at the Kitchen.

April 1,2 William Fetter
"VISUAL OVERTURE" "FILM SAMPLER"

Previously the director of computer graphics at the Boeing Aircraft Company, Seattle, William Fetter is currently adapting the technology he developed to other design/graphic representations, as Head, Computer Graphics Laboratory, Department of Design, Southern Illinois University, Carbondale, Illinois.

April 3,4 Michael Beeler (will be repeated, Apr.12)
"SOLAR CORONA"

Artificial Intelligence Laboratory, MIT Cambridge, Massachusetts. Music by Peter Samson. SOLAR CORONA was made from data taken from August 14,1969 through May 7,1970, OSO-VI, one of the Orbiting Satellite Observatories. The sunlight which was measured in this experiment is only that of the corona, above the surface of the sun, is light of only one color, (wavelength 625 +or - 3 Angstroms), light from a heat of about 2 million degrees.

April 3,4,12 Peter Struycken
"IMAGE PROGRAMME-1-1972"

Galerie Swart Amsterdam, Holland
Computer programme by Drs. S. Tempelaars
"In order to gain acquaintance with the premises applying to the reciprocity between element and structure, the changing degree of variation being the criterion, I make models which relate to this problem....One of these models is my image programme 1-1972." -from Peter Struycken's letter.

April 5,13,14 John Whitney
"MATRIX III"

The Whitney family is famous for computer movies. This is John Whitney's newest film, sent from Pacific Palisades, California.
Thanks to I.B.M. for making, this print, available.

April 6,7 Stan Vanderbeek
University of Southern Florida, Tampa Florida
Mr. Vanderbeek is a famous filmmaker, formerly at M.I.T.

April 8,9 Lillian Schwartz
1)"PIXILLATION" 2)"UFO's" 3)"MUTATIONS" 4)"ENIGMA"
5)"APOTHEOSIS" 6)"AFFINITIES" 7)"GOOGLEPLEX" 8)"MATHOMS"
independent filmmaker, Maplewood, New Jersey

April 8,9 Arthur Layzer
"MORNING ELEVATOR"
Steven's Institute of Technology, Rutherford, New Jersey
Resident Visitor at the Bell Telephone Laboratories,
"The digital computer has negative expressivity-a black border that can be used to bring out human expressivity."
Assistance in programming from Joan Miller, Bell Labs.
...ALSO: two pieces of computer music-
"PIECE FOR SIX VOICES", "FANFARE"

Music events in the International Computer Arts Festival

April 1,2 JOSEPH OLIVE "STUDIES # 4 & 5"

Bell Telephone Labs

Murray Hill, New Jersey

Employed in speech and acoustics

work at Bell Labs, Mr. Olive has

a PhD in physics, and is a respected

composer. He uses the GROOVE computer

system, with 14 lines from a PDP-10.

April 3,4 THOMAS WELLS "APOTHEGM G.K."

Director of the Electronic Music Studio

The University of Texas at Austin, Texas

April 3,4 JOEL GRESSEL

Princeton University, Princeton New Jersey

5,10,11 CHARLES DODGE "THE SPEECH SONGS"

School of Music, Columbia University, New York

Mr. Dodge is an internationally known lecturer

on the subject of computer music, and a composer

of renown. He is the music co-ordinator of this

Festival.

6,7 EMMANUEL GHENT 1) "PHOSPHONES" 2) "COMPUTER

BRASS" 3) "INNERNESS" Bell Telephone Labs, and

New York City. Well known as a composer of

instrumental and electronic music, Emmanuel

Ghent has in recent years devoted himself to

synthesizing music and stage lighting by means

of the GROOVE computer system.

8,9 GARY NELSON

Purdue University, West Lafayette, Indiana

4-Channel tapes, using MUSIC65, (a descendant

of MUSIC4) Also doing work in computer gener-

ated musical notation, in exhibit in the Kitchen.

With Mr. James Lesko, who uses a computer to

generate plans for steel sculpture, Mr. Nelson

is combining sound with sculpture, by placing

speakers within the object..

8,9 MAX MATHEWS 1) RUNNING MAN SUITE,

2) "ELEPHANTS MAY SAFELY GRAZE" 3) "SCALES"

4) "MISTAKES" Bell Telephone Labs, Murray Hill

Max Mathews is a widely published author, an

engineer, and a composer. He is largely respons-

ible for the highly adaptable GROOVE computer

system, which so many composers use, at Bell Labs.

4,5 STEPHEN SMOLIAR "SRVAR 6, CLIFF 2, SRVAR 3"

& 12th/ Department of Computer Science, Technion

Haifa, Israel. Stephen Smoliar has devised a

programming language EUTERPE. The various pieces

use the same program, with different thematic

subroutines patched in.

5,12 EZRA SIMS "FROM AN OBOE QUARTET"

Artificial Intelligence Lab, M.I.T.

Cambridge, Massachusetts

Music events in the Computer Arts Festival

Ezra Sims uses the PDP-6/10 system, and the EUTERPE program devised by Stephen Smoliar.

April 10,11 F.RICHARD MOORE

1)"VARIANTS" 2)"PIXILLATION" (original soundtrack)
Bell Telephone Laboratories, Murray Hill, New Jersey
"Technological art will succeed or fail according to the success of the real time interaction as opposed to only programming abstract structures. We have to maximize the capability to play the machine as an instrument."

April 9 ALISON KNOWLES "PROPOSITION 4 (SQUID)"

New York

Performance piece for four voices

April 13,14 ALVIN LUCIER

"RMSIM 1 (THE BIRD OF BREMEN FLIES THROUGH THE HOUSES OF THE BURGHERS)" 1972

Wesleyan University, Middletown, Connecticut
A computer controlled sound environment, commissioned for Radio Bremen, using a PDP-10, four channels.

April 13,14 RICHARD COFF

Wesleyan University- student of Alvin Lucier

April 17 IEJAREN HILLER

"THE ILLIAC SUITE FOR STRING QUARTET"

Performed live, New York debut. Musicians from the State University of New York, Buffalo
The historic Illiac Quartet, never before played in New York, dates from the 1950s, and is a pioneering work, using a computer to carry out serial techniques, producing a veritable string quartet. Other works will be performed. Thanks to Jim Burton, of the Kitchen.

Video events in the International Computer Arts Festival, April 1973

April 2,3 Bill Etra "IMAGE WARP"

Artist-in-residence WNET-TV Ch.13, NYC

Live performance, debut of the new

R U T T / E T R A video synthesizer.

The synthesizer, designed in conjunc-

tion with engineer Steven Rutt, has

many advantages over previously

existing systems-"Pray for sync!"

April 4,5 David Dowe, Jerry Hunt

1) "HARRINAN PLAYING HEISENBERG/ EYES"

and 2) "ELECTRIC EXO-SKETCH"

Southern Methodist University

Dallas, Texas

Dancers are able to control video and

audio signals by mia-electric pick ups

which respond to discrete muscle move-

ments, the X and Y co-ordinates are

fed through a scan converter, allowing

the two way reversibility of

pictures & sound.

April 6,7 Walter Wright, New York

An architect, and a design engineer,

he first became interested in computer

generated images in 1965. Computer

graphics system at University of Water-

loo, Ontario, Canada; Computer animator

for Dolphin Productions, Computer Image

Corp, NYC; presently Artist-in-residence

at WSKG- TV in Binghamton, NY, is design-

ing and building his own video synthesizer.

April 8,9 Ed Emshwiller "SCAPE MATES"

Well known filmmaker, and Artist-in-residence

at WNET-TV Ch 13, New York.

Made at the Experimental Television Lab,

and at Dolphin, Computer Image Corp.;

SCAPE-MATES is a hauntingly beautiful

voyage into the depths of man/machine

interaction, using expressive dance motions

and computer animation, and geometric graphics.

April 10,11 Nam June Paik

Artist in residence at WNET Ch.13, New York

One of the Great Grand Parents of Video, in

fact said to be the "Mao Tse-Tung of video,"

Nam June Paik is a pioneer in the use of

electronically distorted images. A Korean,

he has an engineer's degree from Tokyo,

and is a famous artist of the avant-garde.

He will show a film made with Michael Noll, James Tenney,

of Bell Laboratories; and some video tapes

of the synthesizer he designed with Shuya Abe.

April 10,11 Jud Yalkut "THE WHIRLING ECSTASY"

Video-Film Collective, New York

Thanks to Walter Wright

"How can one undergo transformation without being shattered?"

-Jalal'ud-din Rumi

Page 2.....of Video Events during the Computer Arts Festival

April 12, 1 Dimitri Devyatkin
"SACHDEV", "STEEP TURNS", "MOTOWN"

Thanks to Walter Wright for the
computer animation, and assistance,
Music: G.S.Sachdev; J.Brahms; Smokey
Robinson and the Miracles, The Temptations,
and Marvin Gaye. Original graphics.

April 13, 14 Ron Hays
Artist-in-residence at WGBH-TV, Boston, Massachusetts
Ron Hays, born in Nebraska, is a widely seen
video artist. He plays the Paik/Abe synthesizer
as a fully responsive, improvisatory instrument.

SYMPOSIUM: April 7 at 2pm*** Will be video taped.
Other $\frac{1}{2}$ inch video recording crews are welcome-
panelists will have two microphones, one on the
floor, mixed.

THE COMPUTER ARTS FESTIVAL is supported by a special
grant from the New York State Council on the Arts.
The Kitchen is run non-profit by artists, and audience
contributions are split to pay the artists' and the
Kitchen's expenses.

Special thanks to Mr. Shridhar Bapat, of the Kitchen
for continual supporting assistance. This Festival
would not have been possible without the support of
the entire Kitchen: Jim Burton, Bob Stearns, Michael
Tschudin, Woody and Steina Vasulka, and Howard Wise.

Graphics coordinator: George Chaikin

Music co-ordinator: Charles Dodge

General Co-ordinator: Dimitri Devyatkin

ALL EVENING PROGRAMS BEGIN AT 8PM, lasting approximately 2 $\frac{1}{2}$ hours.
Programs subject to change without notice.